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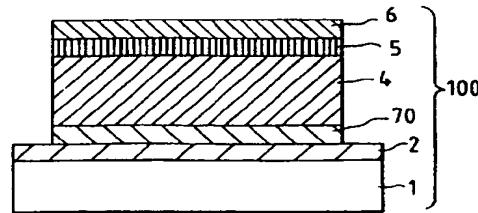
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(54) Photoelectric converter, its driving method, and system including the photoelectric converter

(57) A photoelectric converter of a high signal-to-noise ratio, low cost, high productivity and stable characteristics and a system including the above photoelectric converter. The photoelectric converter includes a photoelectric converting portion 100 in which a first electrode layer 2, an insulating layer 70 for inhibiting carriers from transferring, a photoelectric converting semiconductor layer 4 of a non-single-crystal type, an injection blocking layer 5 for inhibiting a first type of carriers from being injected into the semiconductor layer and a second electrode layer 6 are laminated in this order on an insulating substrate 1.

FIG. 4A





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EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	H01L27/146 H04N1/031
X	US 4 575 638 A (OKUMURA FUJIO) 11 March 1986 * abstract; figures 1-4,8,12 * * column 1, line 55 - column 2, line 11 * * column 3, line 4 - line 35 * * column 5, line 7 - line 22 * * column 6, line 57 - column 7, line 18 * * claims 1,2 *	1,3-5,7, 8,10, 17-21, 27,30	H01L27/146 H04N1/031
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X	US 5 225 706 A (BERGER JEAN L ET AL) 6 July 1993 * abstract; figures 1,3,4 * * column 1, line 52 - column 2, line 19 * * column 5, line 17 - column 6, line 22 * * claim 7 *	1,2,4,5, 27,34	
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A	EP 0 296 603 A (CANON KK) 28 December 1988 * abstract; figures 9,10,18 * * column 1, line 45 - column 2, line 6 * * column 4, line 32 - line 45 * * column 6, line 44 - line 59 * * column 9, line 54 - column 10, line 9 * * column 12, line 25 - line 59 * ---	1,3-24, 27,34	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H01L H04N
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	29 August 1997	Visscher, E	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			



EUROPEAN SEARCH REPORT

Application Number
EP 94 12 0730

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
A	<p>EXTENDED ABSTRACTS OF THE 15TH CONFERENCE ON SOLID STATE DEVICES AND MATERIALS, TOKYO, JAPAN, 30 AUG.-1 SEPT. 1983, ISBN 4-930813-04-2, 1983, TOKYO, JAPAN, JAPAN SOC. APPL. PHYS., JAPAN, pages 201-204, XP002039214</p> <p>OKUMURA F ET AL: "Amorphous Si:H linear image sensor operated by a-Si:H TFT array" * figure 4 * * paragraph 3 *</p> <p>---</p> <p>PATENT ABSTRACTS OF JAPAN vol. 013, no. 428 (P-936), 25 September 1989</p> <p>& JP 01 161251 A (FUJITSU LTD), 23 June 1989, * abstract *</p> <p>-----</p>	1,4,5,7, 8,10, 17-21							
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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)						
<p>The present search report has been drawn up for all claims</p> <table border="1"> <tr> <td>Place of search</td> <td>Date of completion of the search</td> <td>Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>29 August 1997</td> <td>Visscher, E</td> </tr> </table> <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>				Place of search	Date of completion of the search	Examiner	THE HAGUE	29 August 1997	Visscher, E
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